SAP Master Data Management Excellence Made Simple

August 08, 2024





Agenda

- Panelists
- Brief Intro
- Unique Challenges with SAP Master Data
- Overcoming SAP Master Data Challenges with Digital Workflows
- Case Study
- Demo
- Q&A

About Cambrian Lab

Mission: To Provide Effective and Practical Solutions for Supply Chain Excellence

Team

Supply Chain, New Product Development and Technology Experts from SAP, Samsung, Siemens, GM, Ford, Applied Materials

Industries

Automotive, High-tech, Semiconductor Equipment, Medical Devices, Consumer Products

Locations

SF Bay Area, Detroit, Boston, Houston

Expertise

- New Product Introduction, Supplier Development, and Master Data Management
- Enterprise and Supply Chain Technology (ERP, SCM, Manufacturing, CRM, Sourcing, Finance)



Panelists

Kris Gorrepati

Product Management

Cambrian Lab

Manish Mathur

VP of Engineering

Cambrian Lab

Justin Williams

Master Data Solution Enablement Manager

Edgewell Personal Care



Sampling of our work in SAP Master Data Management Excellence

Memory and HPC Computing Systems Manufacturer

NPI Engineering, Master Data Management (Materials, BOM, AVL/AML)

Global CPG Company

Master Data Management (Materials, Costing, Specification, Data Quality Workflows)

Global Industrial Manufacturer

Master Data Management (Materials, NPI - Finished Goods, HAWA..)

Specialty Chemicals Leader

Master Data Management (R&D Materials, Finished Goods, Customers, Suppliers)

Paper and Pulp Industry Leader

Finished Goods Material Request and Setup

Tier 1 Global Automotive Supplier

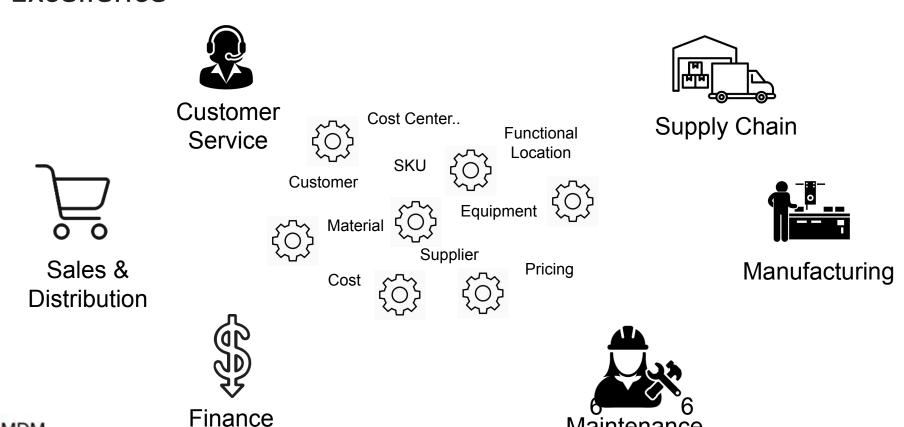
NPI Product Release, Materials, BOM

Food and Beverage Leader

Finished Good/Ingredient Material Request, FG/Ingredient Material Creation, Extensions, Quality Inspections



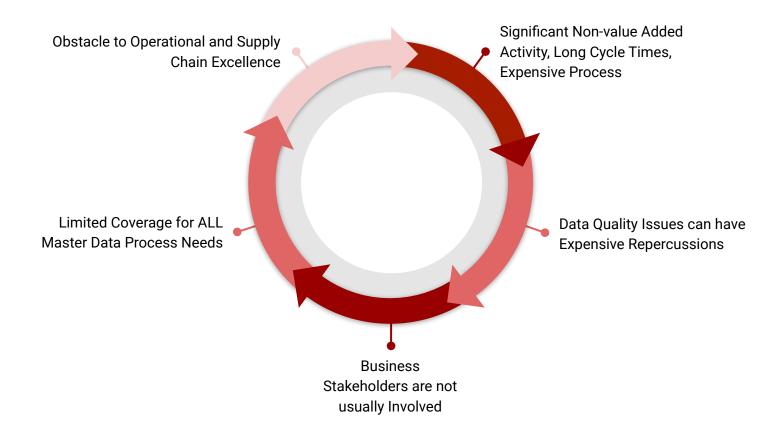
Good SAP Master Data is Critical for Operational Excellence



Maintenance

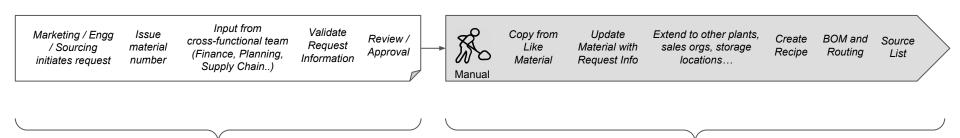


What we observed about SAP Master Data Management





Time-consuming and Expensive Process



Request Process

5-30 days \$100 - 200 Creation Process

5-20 days \$100 - 500



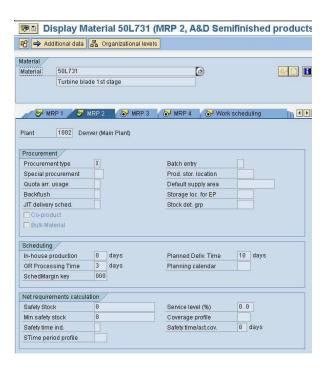
SAP Master Data Process Costs Add Up

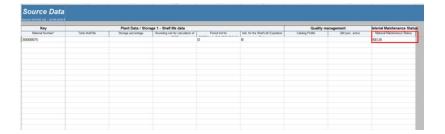
Master Data Process	Master Data Domain	Annual Number	Current Process Cost	Total Annual Cost
New Material Creation	Material Master	1,000	250	250,00
Extending Materials	Material Master	5,000	120	600,00
New Part Request	Material Master	1,500	50	75,00
New Pricing	Material Master	5,000	25	125,00
Pricing Change	Material Master	10,000	10	100,00
Bill of Material	Material Master	200	150	30,00
Bill of Material Change	Material Master	800	75	60,00
Routing	Material Master	200	150	30,00
Approved Supplier	Material Master	600	40	24,00
Purchase Info Record	Material Master	600	25	15,00
Approved Supplier Changes	Material Master	1,200	40	48,00
Purchase Info Record Changes	Material Master	1,400	25	35,00
Approved Manufacturer	Material Master	1,800	25	45,00
Component Change	Material Master	2,200	20	44,00
Component End-of-life	Material Master	800	75	60,0
Product End-of-life	Material Master	200	150	30,0
Quality Planning Info	Material Master	1,200	45	54,0

New SKU	SKU	200	150	30,0
SKU Submission to Amazon	SKU	300	50	15,0
SKU Changes	SKU	600	40	24,0
New Supplier Request	Supplier	800	60	48,0
New Supplier Creation	Supplier	600	120	72,0
Supplier Blocking/Unblocking	Supplier	600	25	15,0
Supplier Info Change	Supplier	1,200	40	48,0
New Customer Onboarding	Customer	600	120	72,0
	Equipment	400	80	32,0



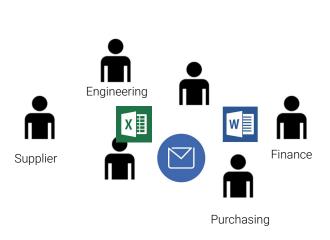
Significant Room for Errors with costly repercussions







Business Users are out of the Loop







Many Unsupported SAP Master Data elements with Traditional Approaches



Supported by Traditional Approaches



Unsupported

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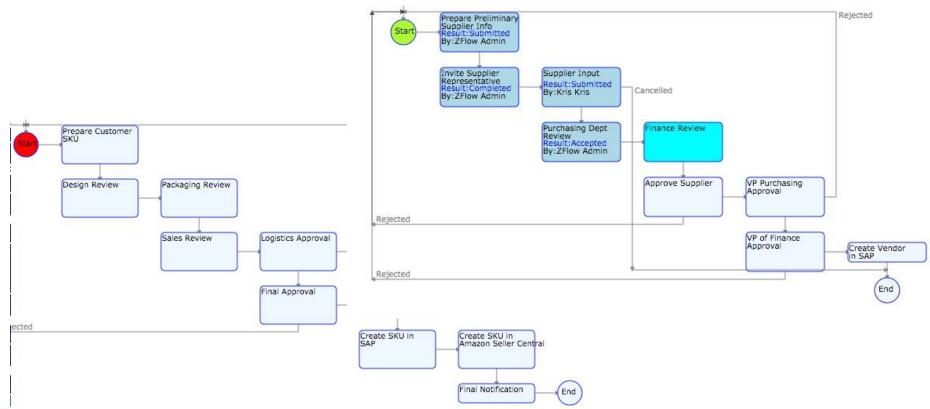
How to Approach Master Data Management





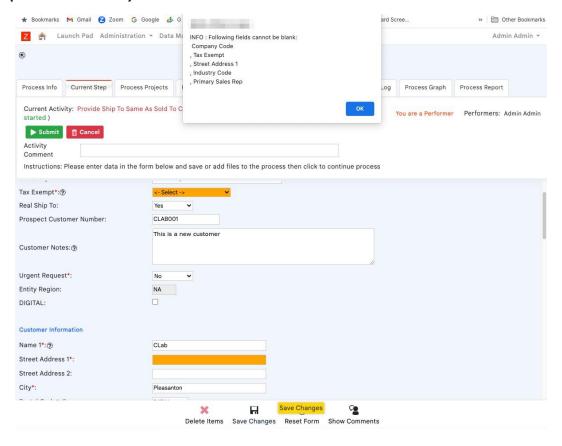


Master Data Management Should Reflect and Support the Business Process



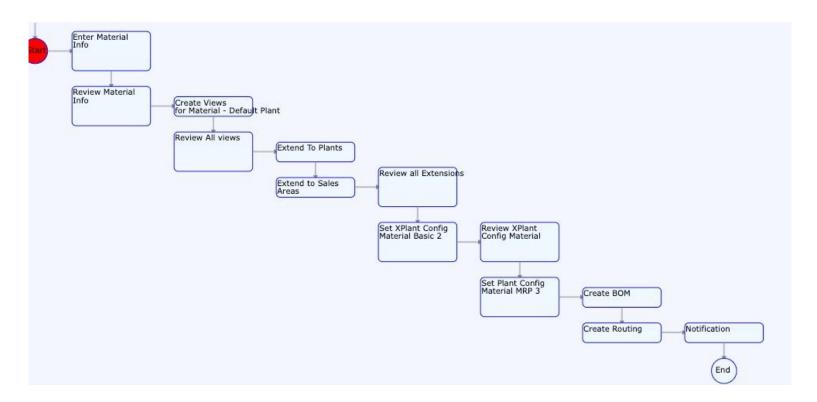
Z MDM

Data Governance and Validation at the Input Source Error proofing (Poka Yoke)



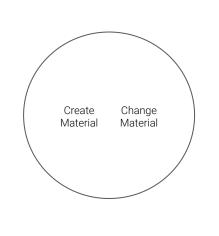


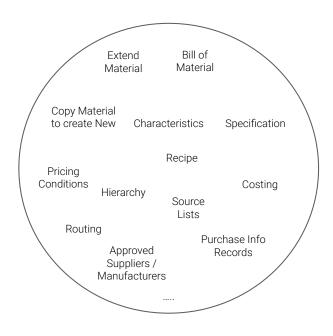
Seamless Integration and Automation as part of Workflows to Reduce Cycle Time and Process Costs





Support for All Material Master Data Elements and Scenarios





Workflow Based Approach



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Demo

Materials Management Scenario (Request and Creation)

Governance as Part of Workflows

Customer and Supplier Onboarding and related Master Data

NPI and Engineering related Master Data



Materials Management Scenario

Marketing / Engg / Sourcing initiates request Input from Validate Copy from Update Extend to other plants, Issue Review / Create cross-functional team Request Like Material with sales orgs, storage material Recipe (Finance, Planning, Approval Information Material Request Info number locations... Supply Chain..) Request Process **Creation Process**

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Master Data Process Improvement

Development Framework Opportunity and Value























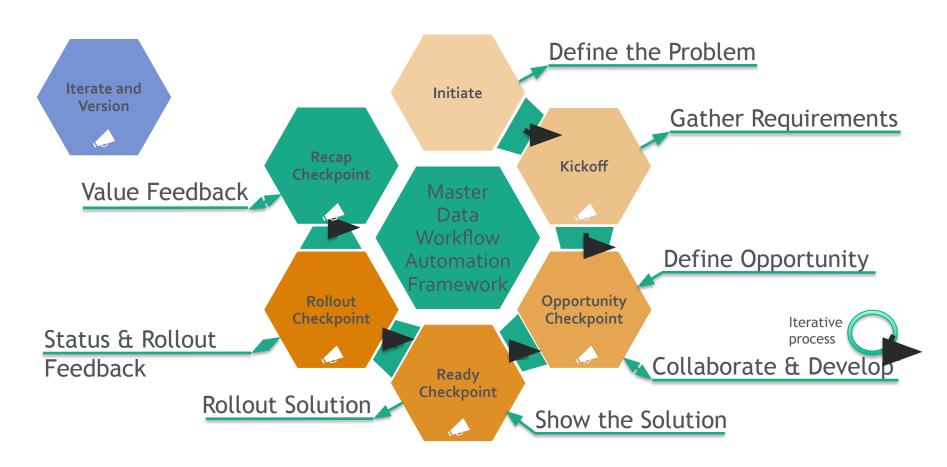














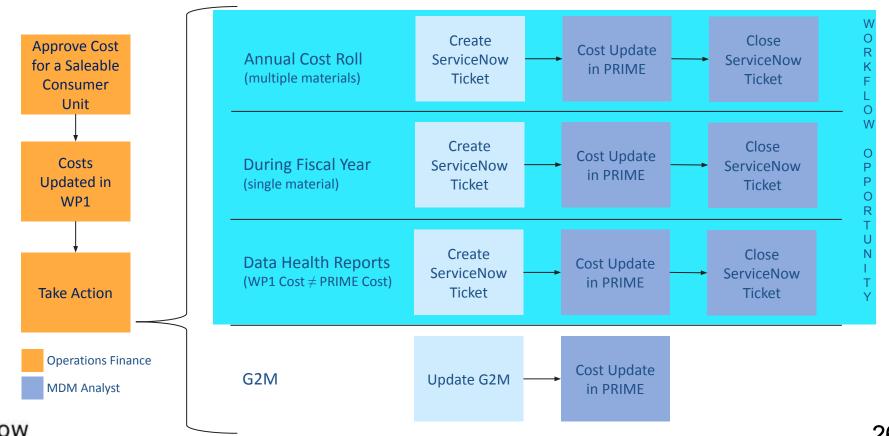
Many Areas for Improvement - Traditional and Non-Traditional





Master Data Process Improvement Opportunity - Example

Multiple streams, multiple points of failure



Value of Improvement Key is shift in type of work Operations Finance is doing **Approve Cost** Weekly Annual Cost Roll for a Saleable (multiple materials) Consumer **Approve Cost** Unit Initiate **Cost Update During Physical Year** Update in Workflow in PRIME (multiple materials) Workflow Data Health Reports Costs (WP1 Cost \neq PRIME Cost) Updated in WP1 Cost Update G₂M Update G2M in PRIME Take Action Opportunity Value Identify and Approve multiple Cost Eliminate ServiceNow Creation changes at one time **Operations Finance** Eliminate Annual Cost Roll semi-automated process Automate updates to PRIME **MDM** Analyst

Streamline 3 of 4 change mechanisms

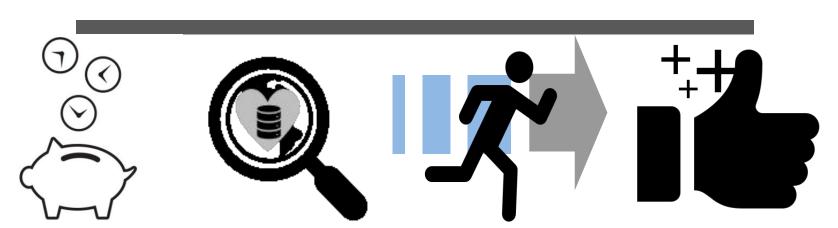
only 2 ways for update Costs in PRIME

into 1 automated workflow, resulting in

ZFLOW

- Minimize MDM User Error
- Improve turnaround time for changes to PRIME materials

Cost Update Version 1 Value



Time Savings

156 Total hours

- 78 in Operations Finance
- 78 in MDM Analyst group

Increased Data Health

New Baseline:

Current Baseline: 90.16%

98%

Improvement: +7.84% **Increased Agility**

New Days to update:

Normal days to update: 1

Number of areas involved

in a change: 2 □ 1

Value-Added Time Current activity to accomplish change:

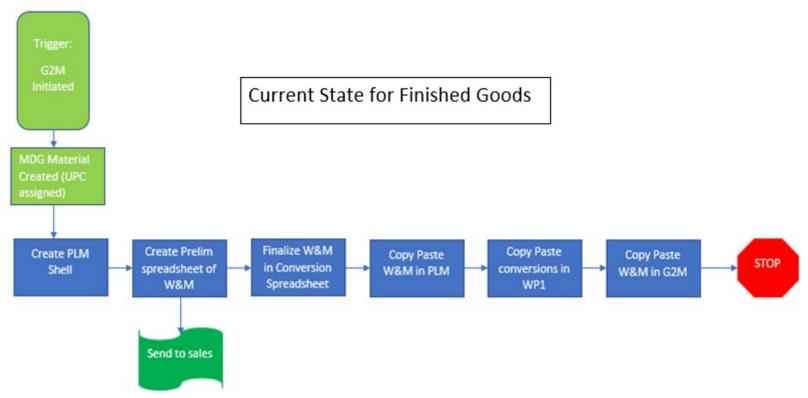
Generate ServiceNow ticket

Replaced by:

Approve Cost Updates



Master Data Process Improvement Opportunity - Example Redundant data entry



Value of Improvement

Proposed State for Finished Goods

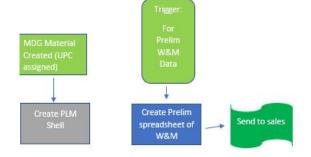


THESE TASKS WILL REMAIN AS IS

- Enter spec number and save
- Attach template spreadsheet
- Click submit

User Steps

- Review data was loaded
- Click approve



Opportunity

STOP

- ✓ Trigger workflow off of G2M Task completion
- Automated Create PLM Shell
- ✓ Manual effort only in Finalize W&M Worksheet
- ✓ Automated updates to PLM, WP1, G2M
- ✓ Marking Task Complete in G2M

Potential Value

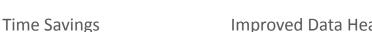
- ✓ Reduce system manual entry from 3 □ Zero
- ✓ Update PLM, WP1, G2M automatically
- ✓ Reduce impact on 2 functional roles involved in process
- ✓ Reduce system switching from 2,3

 Zero
- ✓ Confidence in our data
- ✓ Data in sync between systems
- ✓ Reporting Opportunities
- ✓ Displays included in the first phase



Weights and Measures - Digital Workflow Value







- Base: 101 Hours
 - Future Data Health Rule for

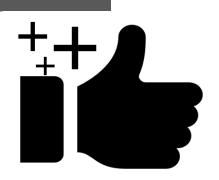
Improved Data Health

- Automated updates based Static Template
- Eliminate data entry error
- Validity



Increased Agility

- Manual data entry in different systems reduced from 3 \(\square\$ 0
- Number of areas involved in a change reduced from $2 \square 1$



Value-Added Time

Current activity: Manually enter data in PLM (SAP), WP1 (SAP), G2M (Custom App) Update G2M task to complete

- Workflow Activities for each material queued by ZFLOW
- Upload template to ZFLOW

Replaced by:

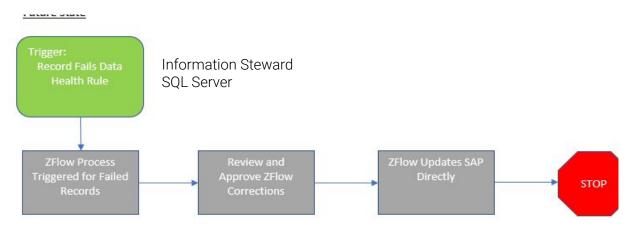
 ZFlow updates PLM, WP1, and Custom App as part of workflow



• New: 20 Hours

Savings: 80%

Continuous Master Data Quality Improvement



Trigger workflow from Data Quality Health Check Automated data correction or manual intervention when needed

Automated updates in SAP

Continuous improvement of master data quality (drive to zero errors)

Reduce **system** manual entry from 1 □ Zero
Update SAP automatically
Reduce **response time** to review/update
Reduce **impact** on order processing



Advantage of Digital Workflow Based Master Data Processes

Effective and Seamless Master Data Workflows

Out-of-the-box Integration to ERP, CRM, E-commerce, PLM, Supply Chain, Manufacturing Systems

Build your own workflows with easy-to-use workflow designer



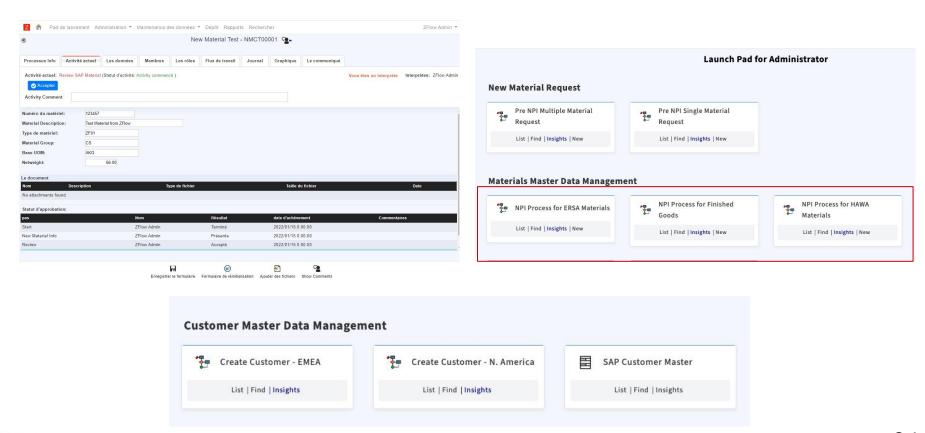
Involves Right People at the Right Time

Supply Chain Ready

Support for Many Master Data Domains and Elements



Support for Different Languages, Types, Plants, Divisions...

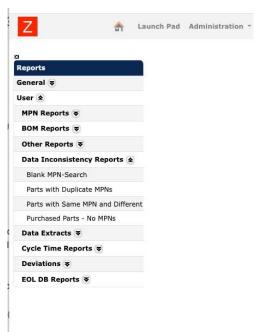




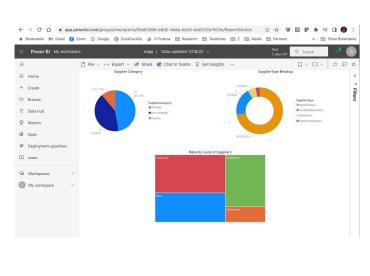
Reporting and Analytics

Embedded

Internal Reporting Framework



Connect with PowerBI/Tableau





Digital Workflow based Materials Master Data Processes

- Eliminates non-value added work, shortens cycle time, and decreases process cost
- Easy to adopt and loved by users
- Proven success in many industries

Free Trial

Free Pilot



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